

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/US 02/11641

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04Q7/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04Q H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data bases consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 003 302 A (NEC CORP.) 24 May 2000 (2000-05-24) abstract; figures 1-4 column 11, line 36 -column 13, line 22 -----	1,8,12
Y	DE 199 07 085 C (SIEMENS AG.) 13 April 2000 (2000-04-13) abstract; figures 1-3 column 3, line 68 -column 4, line 31 -----	1,8,12
A	WO 98 45966 A (QUALCOMM INC.) 15 October 1998 (1998-10-15) abstract; figures 2,7,10 page 45, line 12 -page 48, line 11 ----- -/-	1,8,12



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

27 November 2002

Date of mailing of the international search report

04/12/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Danielidis, S

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 02/11641

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 977 402 A (NEWBRIDGE CORP.) 2 February 2000 (2000-02-02) abstract; figures 1-3 column 5, line 5 - line 19 column 7, line 33 - line 51 -----	1,8,12
A	EP 1 089 500 A (NORTEL NETWORKS LTD.) 4 April 2001 (2001-04-04) abstract; claim 1; figures 1,3,6 page 6, line 37 - line 52 -----	1,8,12
P,A	EP 1 130 872 A (LUCENT TECHNOLOGIES INC.) 5 September 2001 (2001-09-05) abstract; figure 2; table 1 page 3, line 2 - line 21 page 5, line 9 - line 48 -----	1,8,12

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US 02/11641

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1003302	A	24-05-2000	AU 5954099 A	25-05-2000
			EP 1003302 A2	24-05-2000
			JP 3214498 B2	02-10-2001
			JP 2000217159 A	04-08-2000
DE 19907085	C	13-04-2000	DE 19907085 C1	13-04-2000
			EP 1030530 A2	23-08-2000
WO 9845966	A	15-10-1998	US 5914950 A	22-06-1999
			AU 7246698 A	30-10-1998
			CN 1263675 T	16-08-2000
			EP 0974237 A2	26-01-2000
			JP 2001519123 T	16-10-2001
			TW 391099 B	21-05-2000
			WO 9845966 A2	15-10-1998
			US 5923650 A	13-07-1999
			ZA 9802973 A	13-10-1998
EP 977402	A	02-02-2000	EP 0977402 A2	02-02-2000
EP 1089500	A	04-04-2001	EP 1089500 A2	04-04-2001
EP 1130872	A	05-09-2001	EP 1130872 A1	05-09-2001
			JP 2001274839 A	05-10-2001